

## ABSTRACT OF THE DISCLOSURE

A method for processing an image acquired through a guide consisting of a plurality of optical fibers includes, for each optical fiber, isolating on the acquired image a zone corresponding to the optical fiber, locally processing each zone individually to correct the photon flux detected in each optical fiber, then reconstructing the acquired image by eliminating the pattern caused by the optical fiber. The method also includes a sampling process for obtaining, for each optical fiber and from a sampling image, a sample injection rate which can be used for reconstructing the acquired images. The method also includes a prior step which consists in detecting the fibers from a target.